A Deſcription of the Uſes of a certain Powder for yielding very ſmooth and cloſe Mettal, and of eaſier carriage, &c.

THis was lately communicated to the Publiſher by a German Phyſitian reſiding at *Frankfort* on the *Mayne*, in High-Dutch; the Engliſh of which is as follows;

1. The Powder, I ſpeak of, maketh the Mettal ſo cloſe and ſmooth, that it leaves not the leaſt pit in the piece, and that a Gun ſo caſt needs no boaring.

2. One third of the Mettal may be ſpared.

3. Such Guns remain clean and neat a long while. In the Year 1672. July 9. there was caſt a Demy-canon; weighing 34 hundreds of weight. This being tryed with a bullet of 34 pounds weight, there was employed the firſt time 12 pounds of powder, the ſecond time as much, the third time 15 pounds, and the fourth time 24 pounds, ſtrong powder; all which tryals it endured very well. Beſides, not long ſince there was caſt a ſmall Petard of only two pounds of this mettal, with which I broke in pieces a beam of a Rhine-foot ſquare, the Petard remaining entire and perfect.

When you have occaſion to carry theſe pieces over land, you ſhall not need ſo many horſes by far as otherwiſe. And in great Ships and Galleons, that are ſometimes mounted with 100 Guns each, you may of the matter of 200 make 300 Guns, performing the ſame, if not a better, effect. If his Majeſty be pleaſed to command a *Specimen* of this Powder for a good tryal, we are ready to ſend it. It is not only eaſie to make, but alſo of ſmall expence.

Extracts of two Letters of Dr. Swammerdam, *concerning ſome Animals, that having* Lungs *are yet found to be without the Arterious Vein; together with ſome other curious particulars.*

WE ſhall give the Reader both theſe Extracts in the ſame Language the Letters were written in. The firſt was written *Jannar.* 24, 1673. at *Amſterdam*, viz;

In